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- 1 [Every joule is precious: the case for revisiting operating system design](#)
 Amin Vahdat, Alvin Lebeck, Carla Schmitter Elias
 September 2000 EW 9: Proceedings of the 9th workshop on ACM SIGOPS E
 PC: new challenges for the operating system

Publisher: ACM

Full text available: Pdf (71.97 KB)

 Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 116, Citation

By some estimates, there will be close to one billion wireless devices ca within five years, surpassing the installed base of traditional wired comp take the form of cellular phones, personal digital ...

- 2 [Patient management systems: the early years](#)
 W. E. Hammond
 December 1987 Proceedings of ACM conference on History of medical inform
 Publisher: ACM

Full text available: Pdf (880.60 KB)

 Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 318, Citation

As I scanned through old papers and reports in preparation for these re the "sameness" of those proposals and descriptions with what is happer are major differences - today's systems ...

- 3 [Real-time eye detection and tracking under various light conditions](#)
 Zhiwei Zhu, Kikuo Fujimura, Qiang Ji
 March 2002 ETRA '02: Proceedings of the 2002 symposium on Eye tracking
 Publisher: ACM

Full text available: Pdf (602.92 KB)

 Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 200, Citation


Non-intrusive methods based on active remote IR illumination for eye tr applications of vision-based man-machine interaction. One problem that their sensitivity to lighting condition change. This ...

Keywords: Eye Tracking, Kalman Filter, Mean Shift, Support Vector Ma


4

[A lighting reproduction approach to live-action compositing](#)
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-  [Paul Debevec, Andreas Wenger, Chris Tchou, Andrew Gardner, Jamie Waas](#)
July 2002 SIGGRAPH '02: Proceedings of the 29th annual conference on interactive techniques

Publisher: ACM

Full text available:  Pdf (25.36 MB)

Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 126, Citation


We describe a process for compositing a live performance of an actor in is consistently illuminated by the virtual environment. The Light Stage is sphere of inward-pointing RGB light emitting ...

Keywords: global illumination, image-based lighting, matting and com and shading

Also published in:


July 2002 Transactions on Graphics (TOG) Volume 21 Issue 3

5 [A photometric approach to digitizing cultural artifacts](#)

-  [Tim Hawkins, Jonathan Cohen, Paul Debevec](#)

November 2001 VAST '01: Proceedings of the 2001 conference on Virtual r heritage

Publisher: ACM

Full text available:  Pdf (19.56 MB)


Additional Information: [full citation](#), [abstract](#), [...](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 54, Citation

In this paper we present a photometry-based approach to the digital do Rather than representing an artifact as a geometric model with spatially we instead propose directly representing ...

Keywords: image-based modeling, lighting, rendering

6 [Linear light source reflectometry](#)

-  [Andrew Gardner, Chris Tchou, Tim Hawkins, Paul Debevec](#)

July 2003 SIGGRAPH '03: SIGGRAPH 2003 Papers

Publisher: ACM

Full text available:  Mov (21:51 MIN),  Pdf (12.74 MB) Additional Information: [full citat](#)


Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 107, Citatio

This paper presents a technique for estimating the spatially-varying refl based on its appearance during a single pass of a linear light source. By point light source as the illuminant, ...

Also published in:

July 2003 Transactions on Graphics (TOG) Volume 22 Issue 3

7 [Evolutionary computer vision](#)

-  [Gustavo Graue](#)

July 2007 GECCO '07: Proceedings of the 2007 GECCO conference comp evolutionary computation

Publisher: ACM


Full text available:  Pdf (11.30 MB)

Additional Information: full citation, index term

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 432, Citation

Keywords: computer vision, evolutionary computation

8 The development of the Emerald programming language

 Andrew P. Black, Norman C. Hutchinson, Eric Jul, Henry M. Levy

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on languages

Publisher: ACM


Full text available:  Mov (54.7 MIN),  Pdf (1.45 MB) Additional Information: full citation, abstract, t

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 216, Citation

Emerald is an object-based programming language and system design
 Department of Computer Science at the University of Washington in the
 of Emerald was to simplify the construction of distributed ...

Keywords: Eden, Emerald, Washington, abstract types, call-by-move,
 mobility, object mobility, object-oriented programming, polymorphism,
 remote procedure call, type conformity

9 Queue: Volume 6 Issue 1


 January 2008 Queue

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (6.04 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 111, Downloads (12 Months): 428, Citation

10 Tactics-based remote execution for mobile computing

 Rajesh Krishna Balan, Mahadev Satyanarayanan, So Young Park, Tadashi C

May 2003 MobiSys '03: Proceedings of the 1st international conference on and services

Publisher: ACM

Full text available:  Pdf (355.71 KB) Additional Information: full citation, abstract, i

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 55, Citation C

Remote execution can transform the puniest mobile device into a comp
 intensive applications such as natural language translation, speech reco
 augmented reality. However, easily partitioning ...

11 Survey and analysis of multimodal sensor planning and integration for

 Besma R. Abidi, Nash R. Aragam, Yi Yao, Monir A. Abidi

December 2008 Computing Surveys (CSUR) , Volume 41 Issue 1

Publisher: ACM

Full text available:  Pdf (1.86 MB) Additional Information: full citation, abstract, i


Bibliometrics: Downloads (6 Weeks): 187, Downloads (12 Months): 187, Citation

Although sensor planning in computer vision has been a subject of rese
 majority of the research seems to concentrate on two particular applica

of laboratory and industrial workbenches, ...

Keywords: Sensor planning, cooperative sensing, multimodal sensing, object recognition, ubiquitous surveillance, wireless sensor network

12 [Perceptual user interfaces: things that see](#)

 James L. Crowley, Joëlle Coutaz, François Bérard

March 2000 Communications of the ACM . Volume 43 Issue 3

Publisher: ACM

Full text available:  [HTML](#) (36.13 KB),  [PDF](#) (732.99 KB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 183, Cita

13 [Projectors: advanced graphics and vision techniques](#)

 Ramesh Raskar


August 2004 SIGGRAPH '04: SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available:  [PDF](#) (6.53 MB) Additional Information: [full citation](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 696, Cita

14 [Communications of the ACM: Volume 51 Issue 12](#)


 December 2008 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#),  [PDF](#) (6.91 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 2281, Downloads (12 Months): 9874, Cit

15 [A CMOS camera-based man-machine input device for large-format i](#)

 Gerald D. Morrison

August 2007 SIGGRAPH '07: SIGGRAPH 2007 courses

Publisher: ACM


Full text available:  [PDF](#) (588.82 KB) Additional Information: [full citation](#), [abstract](#), i

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 171, Cita



Human-computer interaction using large-format displays is an active area of research that explores how humans can better work with computers or other machines. In order to be an enabling technology that creates the interface ...

Keywords: computer vision, human-computer interaction, large-format displays, smart cameras

16 [Communications of the ACM: Volume 51 Issue 11](#)


 November 2008 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#),  [PDF](#) (8.26 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 733, Downloads (12 Months): 2072, Cita

17 [Reincarnating PCs with portable SoulPads](#)

 Ramón Cáceres, Casey Carter, Chandra Narayanaswami, Mandayam Ragh

June 2005 MobiSys '05: Proceedings of the 3rd international conference

and services

Publisher: ACM

Full text available:  Pdf (199.97 KB)Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 92, Citation (12 Months): 0


The ability to walk up to any computer, personalize it, and use it as one mobile computing research. We present *SoulPad*, a new approach based on operating system along with a suspended ...

18 Web II: web-based simulation of systems described by partial differential equations

Manuel Alfonseca, Juan de Lara, Hans Vangheluwe

December 2001 WSC '01: Proceedings of the 33nd conference on Winter simulation

Publisher: IEEE Computer Society

Full text available:  Pdf (538.55 KB)Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Citation (12 Months): 0


This paper describes how to take advantage of Internet services and obtain solutions to partial differential equations (PDEs) in a distributed manner. This is accomplished by a distributed object oriented continuous simulation language ...

19 The parallelization of the perspective shear-warp volume rendering algorithm

Jürgen P. Schulze, Ulrich Lang

September 2002 EGPGV '02: Proceedings of the Fourth Eurographics Workshop on Visualization


Publisher: Eurographics Association

Full text available:  Pdf (1.03 MB)Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 16, Citation (12 Months): 0


The shear-warp algorithm for volume rendering is among the fastest volume rendering algorithms. It is an object-order algorithm, based on the idea of the factorization of the projection matrix into a 2D warp component. Thus, the compositing ...

20 Integrating gazetteers and remote sensed imagery

 Shawn Newsam, Yi Yang

November 2008 GIS '08: Proceedings of the 16th ACM SIGSPATIAL international conference on Geographic information systems

Publisher: ACM

Full text available:  Pdf (329.29 KB)Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 31, Citation (12 Months): 0

This work explores the potential for increased synergy between gazetteer information and remote sensed imagery. These two data sources are complementary. Gazetteer information about what is where but they must be manually ...

Keywords: Markov random fields, appearance modeling, appearance models, objects, information integration, interest points, remote sensed imagery

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